

Utility

Battery Performance Specifications



Features and Benefits

- Capacity range 60 to 280 Ah
- High energy design with space efficient foot prints
- 100% Capacity at delivery
- Rod style low-antimony alloy flat plate positive grid suited for switchgear, utility and telecom applications
- Proven grommet terminal seal
- 20 year design life @77°F (25°C) in float applications
- Manual maintenance readings can be taken on individual cells to fulfill NERC™ requirements

Construction

- Thick positive plates provide long discharge rates and long life
- Terminals - elevated color coded lead plated copper alloy M10 insert
- Cover - AcryloNitrile Butadiene Styrene (ABS) UL94-HB
- Container - six and three multi-cell units are made of durable, high impact resistant clear Styrene Acrylonitrile (SAN) allowing for visual inspection of the plates and electrolyte level, five and two multi-cell units are available upon request (for 58 and 59 cell strings only)
- Electrolyte - 1.240 Specific Gravity at the maximum level line @ 77°F (25°C)
- Separator - microporous with glass fiber mat

Installation and Operation

- Float charging voltage recommended average = 2.23 v/c @ 77°F (25°C)
- Equalization charge voltage recommended average = 2.33 v/c @ 77°F (25°C)
- Vent type: Flame Arrestor-Optional Funnel Flame Arrestor (AR17269)
- Connectors -Insulated, rigid copper inter-cell and inter-unit connectors with insulated inter-tier/step cables
- Screws - insulated Stainless Steel M10 x 22 mm screws (use 22mm socket)

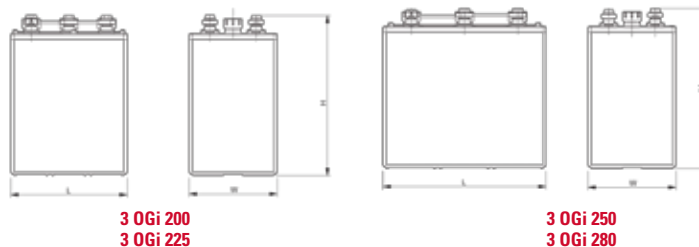
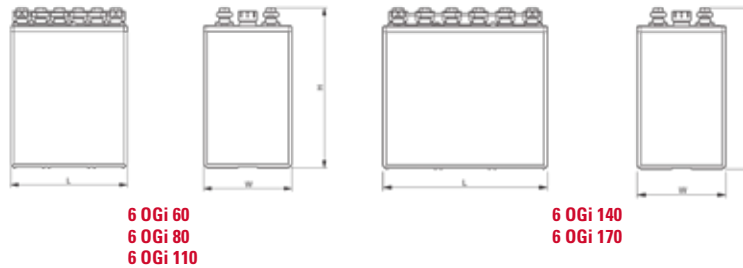
Standards

- Design is compliant with the demanding DIN 40737-3 and IEC 60896-11 specifications
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

Battery Type	Nominal Voltage (V)	Nominal Capacity†	Nominal Dimensions						Typical Weight		Battery Short Circuit Current (Amps)	Cell Internal Resistance* Milli-Ohms	Electrolyte (1.240 S.G.)				Pure Acid (H ₂ SO ₄) Acid				Lead Weight (per jar)			
			Length		Width		Height		lbs	kg			Volume (per jar)		Weight (per jar)		Volume (per jar)		Weight (per jar)		lbs	kg		
			in	mm	in	mm	in	mm					gal	L	lbs	kg	gal	L	gal	L	gal	L	lbs	kg
6 OGi 60	12	56	10.71	272	8.07	205	15.20	385	88.32	40.10	1150	1.75	2.32	8.77	23.98	10.88	0.54	2.06	8.18	3.71	53.64	24.33		
6 OGi 80	12	84	10.71	272	8.07	205	15.20	385	106.37	48.30	1730	1.17	2.24	8.47	23.15	10.50	0.53	1.99	7.90	3.58	71.23	32.31		
6 OGi 110	12	112	10.71	272	8.07	205	15.20	385	122.19	55.40	2310	0.88	2.16	8.17	22.32	10.13	0.51	1.92	7.61	3.45	89.09	40.1		
6 OGi 140	12	140	14.96	380	8.07	205	15.20	385	158.75	72.00	2880	0.70	3.01	11.38	31.10	14.11	0.71	2.67	10.61	4.81	107.21	48.63		
6 OGi 170	12	168	14.96	380	8.07	205	15.20	385	175.10	79.40	3460	0.58	3.24	12.28	33.57	15.23	0.76	2.89	11.45	5.19	125.34	56.85		
3 OGi 200	6	197	10.71	272	8.07	205	15.20	385	95.87	43.50	4040	0.50	1.22	4.63	12.65	5.74	0.29	1.09	4.32	1.96	71.59	32.47		
3 OGi 225	6	225	10.71	272	8.07	205	15.20	385	103.27	46.80	4610	0.44	1.21	4.57	12.48	5.66	0.28	1.07	4.26	1.93	80.65	36.58		
3 OGi 250	6	253	14.96	380	8.07	205	15.20	385	127.26	57.70	5190	0.39	2.00	7.56	20.67	9.38	0.47	1.78	7.05	3.20	89.71	40.69		
3 OGi 280	6	281	14.96	380	8.07	205	15.20	385	134.72	61.10	5770	0.35	1.96	7.41	20.26	9.19	0.46	1.74	6.91	3.13	98.64	44.74		

* Resistance values are for reference only and not intended to represent an Ohmic Value or Baseline Measurement
 † 8 hr rate 1.75Vpc @ 77° F (25° C)



Battery Performance Specifications

Constant Current Discharge Performance Data

Discharge Currents (Amperes) to 1.75Vpc at 77°F (25°C)

Battery Type	Nominal Capacity*	Standby Time (Minutes)			Standby Time (Hours)									
		1	15	30	1	2	3	4	5	6	7	8	10	20
6 OGi 60	56	147	92.0	62.9	39.3	23.0	16.4	12.9	10.6	9.00	7.90	7.00	5.70	3.00
6 OGi 80	84	220	138	94.4	58.9	34.4	24.6	19.3	15.9	13.6	11.9	10.5	8.60	4.60
6 OGi 110	112	293	184	126	78.5	45.9	32.8	25.7	21.2	18.1	15.8	14.0	11.5	6.10
6 OGi 140	140	367	230	157	98.2	57.4	41.0	32.1	26.5	22.6	19.8	17.5	14.4	7.60
6 OGi 170	168	440	276	189	118	68.9	49.2	38.6	31.8	27.1	23.7	21.1	17.2	9.10
3 OGi 200	197	513	322	220	138	80.4	57.4	45.0	37.1	31.7	27.7	24.6	20.1	10.7
3 OGi 225	225	586	368	252	157	91.9	65.6	51.4	42.4	36.2	31.6	28.1	23.0	12.2
3 OGi 250	253	660	414	283	177	103	73.8	57.8	47.7	40.7	35.6	31.6	25.9	13.7
3 OGi 280	281	733	460	315	196	115	82.0	64.3	53.0	45.2	39.5	35.1	28.7	15.2

Discharge Currents (Amperes) to 1.81Vpc at 77°F (25°C)

Battery Type	Nominal Capacity*	Standby Time (Minutes)			Standby Time (Hours)									
		1	15	30	1	2	3	4	5	6	7	8	10	20
6 OGi 60	56	115	79.1	56.2	36.2	21.8	15.8	12.5	10.3	8.90	7.70	6.90	5.70	3.00
6 OGi 80	84	172	119	84.3	54.4	32.7	23.7	18.7	15.5	13.3	11.6	10.3	8.50	4.50
6 OGi 110	112	229	158	112	72.5	43.6	31.6	24.9	20.6	17.7	15.5	13.8	11.3	6.00
6 OGi 140	140	286	198	141	90.6	54.4	39.5	31.1	25.8	22.1	19.4	17.2	14.2	7.50
6 OGi 170	168	344	237	169	109	65.3	47.4	37.4	31.0	26.6	23.2	20.7	17.0	9.00
3 OGi 200	197	401	277	197	127	76.2	55.3	43.6	36.1	31.0	27.1	24.1	19.8	10.5
3 OGi 225	225	458	316	225	145	87.1	63.2	49.8	41.3	35.4	31.0	27.6	22.6	12.0
3 OGi 250	253	515	356	253	163	98.0	71.1	56.0	46.5	39.8	34.8	31.0	25.5	13.5
3 OGi 280	281	573	396	281	181	109	79.0	62.3	51.6	44.3	38.7	34.5	28.3	15.0

*Nominal Ah capacity based on the 8 hour rate to 1.75Vpc at 77°F (25°C)



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